

GCACCGCGCG AGCTTGGCTG CTTCTGGGGC CTGTGTGGCC CTGTGTGTCTG GAAAGATGGA
GCAAGAAGCC GAGCCCGAGG GGCGGCCGCG ACCCCTCTGA CCGAGATCCT GCTGCTTTTCG
CAGCCAGGAG CACCGTCCCT CCCCCGATTA GTGCGTACGA GCGCCAGTG CCCTGGCCCCG
GAGAGTGGAA TGATCCCCGA GGCCAGGGC GTCGTGCTTC CGCAGTAGTC AGTCCCCGTG
AAGGAAACTG GGGAGTCTTG AGGGACCCCC GACTCCAAGC GCGAAAACCC CGGATGGTGA
GGAGCAGGCA AATGTGCAAT ACCAACATGT CTGTACCTAC TGATGGTGCT GTAACCACCT
CACAGATTCC AGCTTCGGAA CAAGAGACCC TGGTTAGACC AAAGCCATTG CTTTTGAAGT
TATTAAAGTC TGTGTTGCA CAAAAAGACA CTTATACTAT GAAAGAGGTT CTTTTTTATC
TTGGCCAGTA TATTATGACT AAACGATTAT ATGATGAGAA GCAACAACAT ATTGTATATT
GTTCAAATGA TCTTCTAGGA GATTTGTTTG GCGTGCCAAG CTTCTCTGTG AAAGAGCACA
GGAAAATATA TACCATGATC TACAGGAACT TGGTAGTAGT CAATCAGCAG GAATCATCGG
ACTCAGGTAC ATCTGTGAGT GAGAACAGGT GTCACCTTGA AGGTGGGAGT GATCAAAAGG
ACCTTGATCA AGAGCTTCAG GAAGAGAAAC CTTTCATCTT ACATTGGTT TCTAGACCAT
CTACCTCATC TAGAAGGAGA GCAATTAGTG AGACAGAAGA AAATTCAGAT GAATTATCTG
GTGAACGACA AAGAAAACGC CACAAATCTG ATAGTATTTT CCTTTCCTTT GATGAAAGCC
TGGCTCTGTG TGTAATAAGG GAGATATGTT GTGAAAGAAG CAGTAGCAGT GAATCTACAG
GGACGCCATC GAATCCGGAT CTTGATGCTG GTGTAAGTGA ACATTCAGGT GATTGGTTGG
ATCAGGATTC AGTTTCAGAT CAGTTTAGTG TAGAATTTGA AGTTGAATCT CTCGACTCAG
AAGATTATAG CCTTAGTGAA GAAGGACAAG AACTCTCAGA TGAAGATGAT GAGGTATATC
AAGTTACTGT GTATCAGGCA GGGGAGAGTG ATACAGATTC ATTTGAAGAA GATCCTGAAA
TTTCCTTAGC TGACTATTGG AAATGCACTT CATGCAATGA AATGAATCCC CCCCTTCCAT
CACATTGCAA CAGATGTTGG GCCCTTCGTG AGAATTGGCT TCCTGAAGAT AAAGGGAAAG
ATAAAGGGGA AATCTCTGAG AAAGCCAAAC TGGAAAACCT AACACAAGCT GAAGAGGGCT
TTGATGTTCC TGATTGTAAA AAACTATAG TGAATGATTC CAGAGAGTCA TGTGTTGAGG
AAAATGATGA TAAATTACA CAAGCTTCAC AATCACAAGA AAGTGAAGAC TATTCTCAGC
CATCAACTTC TAGTAGCATT ATTTATAGCA GCCAAGAAGA TGTGAAAGAG TTTGAAAGGG
AAGAAACCCA AGACAAAGAA GAGAGTGTGG AATCTAGTTT GCCCTTAAT GCCATTGAAC
CTTGTGTGAT TTGTCAAGGT CGACCTAAAA ATGGTTGCAT TGTCCATGGC AAAACAGGAC
ATCTTATGGC CTGCTTTACA TGTGCAAAGA AGCTAAAGAA AAGGAATAAG CCCTGCCCAG
TATGTAGACA ACCAATTCAA ATGATTGTGC TAACTTATTT CCCCTAGTTG ACCTGTCTAT
AAGAGAATTA TATATTTCTA ACTATATAAC CCTAGGAATT TAGACAACCT GAAATTTATT
CACATATATC AAAGTGAGAA AATGCCTCAA TTCACATAGA TTTCTTCTCT TTAGTATAAT
TGACCTACTT TGGTAGTGGA ATAGTGAATA CTTACTATAA TTTGACTTGA ATATGTAGCT
CATCCTTTAC ACCAACTCCT AATTTTAAAT AATTTCTACT CTGTCTTAAA TGAGAAGTAC
TTGGTTTTTT TTTTCTTAAA TATGTATATG ACATTTAAAT GTAACCTATT ATTTTTTTTG
AGACCGAGTC TTGCTCTGTT ACCCAGGCTG GAGTGCAGTG GGTGATCTTG GCTCACTGCA
AGCTCTGCCC TCCCCGGGTT CGCACCATTG TCCTGCCTCA GCCTCCCAAT TAGCTTGGCC
TACAGTCATC TGCCACCACA CCTGGCTAAT TTTTGTACT TTTAGTAGAG ACAGGGTTTC
ACCGTGTTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCGCCCAC CTCGGCCTCC
CAAAGTGCTG GGATTACAGG CATGAGCCAC CG

FIG. 1A

GAGGAGCCGC CGCCTTCTCG TCGCTCGAGC TCTGGACGAC CATGGTCGCT CAGGCCCCGT
 CCGCGGGGCC TCCGCGCTCC CCGTGAAGGG TCGGAAGATG CGCGGGAAGT AGCAGCCGTC
 TGCTGGGCGA GCGGGAGACC GACCGGACAC CCCTGGGGGA CCCTCTCGGA TCACCGCGCT
 TCTCCTGCGG CCTCCAGGCC AATGTGCAAT ACCAACATGT CTGTGTCTAC CGAGGGTGCT
 GCAAGCACCT CACAGATTCC AGCTTCGGAA CAAGAGACTC TGGTTAGACC AAAACCATTG
 CTTTTGAAGT TGTAAAGTC CGTTGGAGCG CAAAACGACA CTTACACTAT GAAAGAGATT
 ATATTTTATA TTGGCCAGTA TATTATGACT AAGAGGTTAT ATGACGAGAA GCAGCAGCAC
 ATTGTGTATT GTTCAAATGA TCTCCTAGGA GATGTGTTTG GAGTCCCGAG TTTCTCTGTG
 AAGGAGCACA GGAAAATATA TGCAATGATC TACAGAAATT TAGTGGCTGT AAGTCAGCAA
 GACTCTGGCA CATCGCTGAG TGAGAGCAGA CGTCAGCCTG AAGGTGGGAG TGATCTGAAG
 GATCCTTTGC AAGCGCCACC AGAAGAGAAA CCTTCATCTT CTGATTTAAT TTCTAGACTG
 TCTACCTCAT CTAGAAGGAG ATCCATTAGT GAGACAGAAG AGAACACAGA TGAGCTACCT
 GGGGAGCGGC ACCGGAAGCG CCGCAGGTCC CTGTCCTTTG ATCCGAGCCT GGGTCTGTGT
 GAGCTGAGGG AGATGTGCAG CGGCGGCACG AGCAGCAGTA GCAGCAGCAG CAGCGAGTCC
 ACAGAGACGC CCTCGCATCA GGATCTTGAC GATGGCGTAA GTGAGCATTG TGGTGATTGC
 CTGGATCAGG ATTCAGTTTC TGATCAGTTT AGCGTGGAAT TTGAAGTTGA GTCTCTGGAC
 TCGGAAGATT ACAGCCTGAG TGACGAAGGG CACGAGCTCT CAGATGAGGA TGATGAGGTC
 TATCGGGTCA CAGTCTATCA GACAGGAGAA AGCGATACAG ACTCTTTTGA AGGAGATCCT
 GAGATTTCTT TAGCTGACTA TTGGAAGTGT ACCTCATGCA ATGAAATGAA TCCTCCCCTT
 CCATCACACT GCAAAAAGATG CTGGACCCTT CGTGAGAACT GGCTTCCAGA CGATAAGGGG
 AAAGATAAAG TGGAAATCTC TGAAAAAGCC AAAGTGAAA ACTCAGCTCA GGCAGAAGAA
 GGCTTGATG TGCTGATGG CAAAAAGCTG ACAGAGAATG ATGCTAAAGA GCCATGTGCT
 GAGGAGGACA GCGAGGAGAA GGCCGAACAG ACGCCCCTGT CCCAGGAGAG TGACGACTAT
 TCCCAACCAT CGACTTCCAG CAGCATTGTT TATAGCAGCC AAGAAAGCGT GAAAGAGTTG
 AAGGAGGAAA CGCAGCACAA AGACGAGAGT GTGGAATCTA GCTTCTCCCT GAATGCCATC
 GAACCATGTG TGATCTGCCA GGGGCGGCCT AAAAATGGCT GCATTGTTCA CGGCAAGACT
 GGACACCTCA TGTCATGTTT CACGTGTGCA AAGAAGCTAA AAAAAAGAAA CAAGCCCTGC
 CCAGTGTGCA GACAGCCAAT CCAAATGATT GTGCTAAGTT ACTTCAACTA GCTGACCTGC
 TCACAAAAAT AGAATTTTAT ATTTCTAACT

FIG. 1B

FIG. 2A

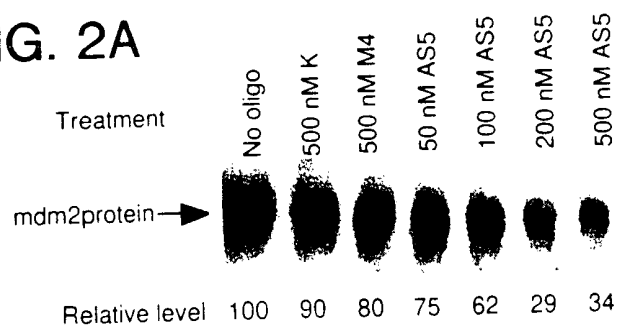


FIG. 2B

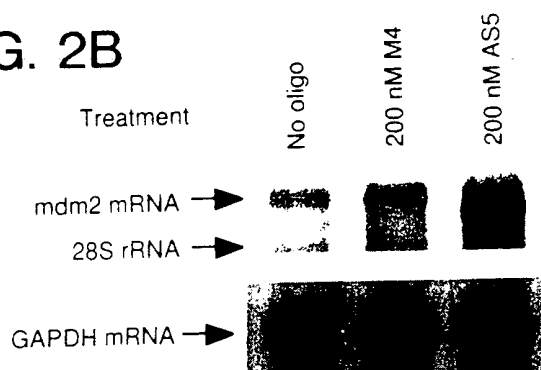
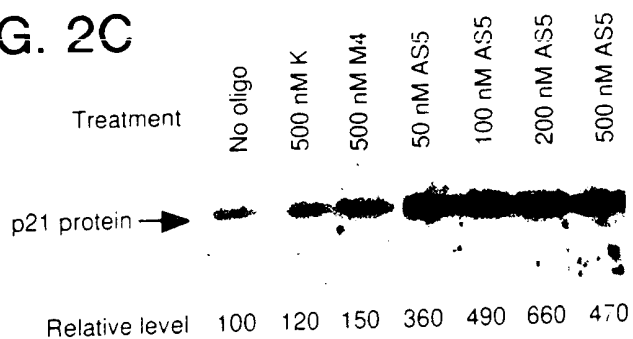


FIG. 2C



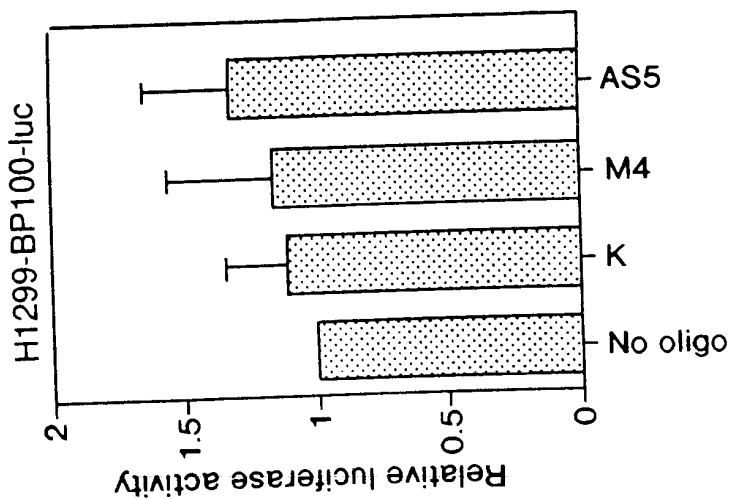


FIG. 3C

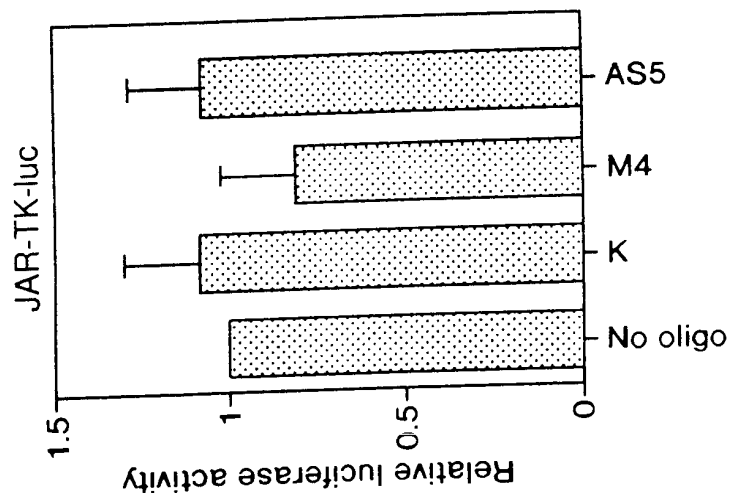


FIG. 3B

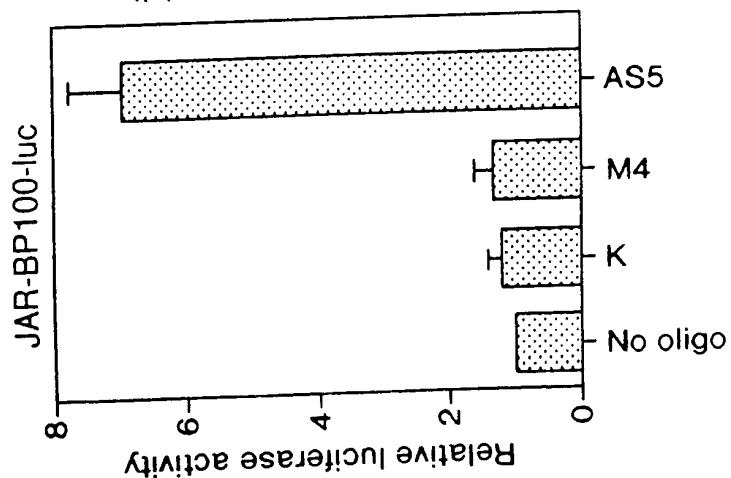
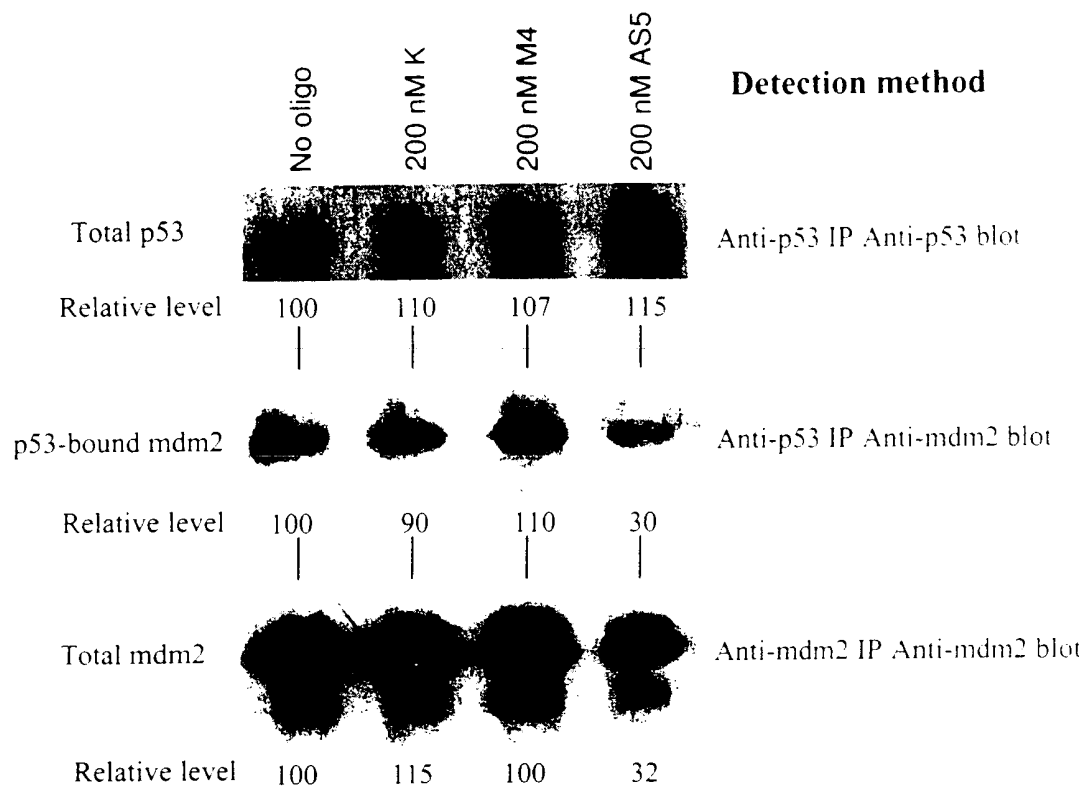


FIG. 3A



JAR + 200 nM AS5

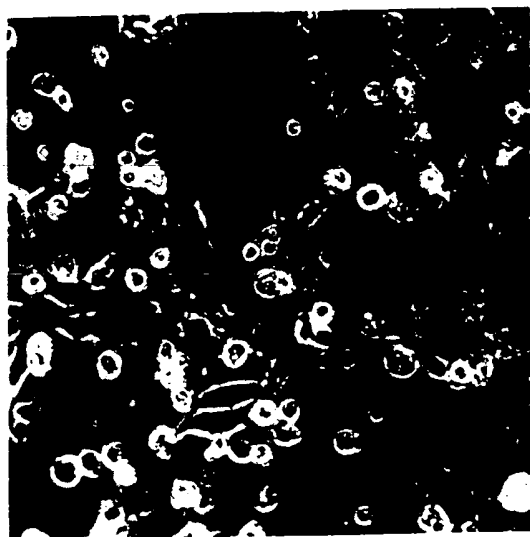


FIG. 5A

JAR + 200 nM M4

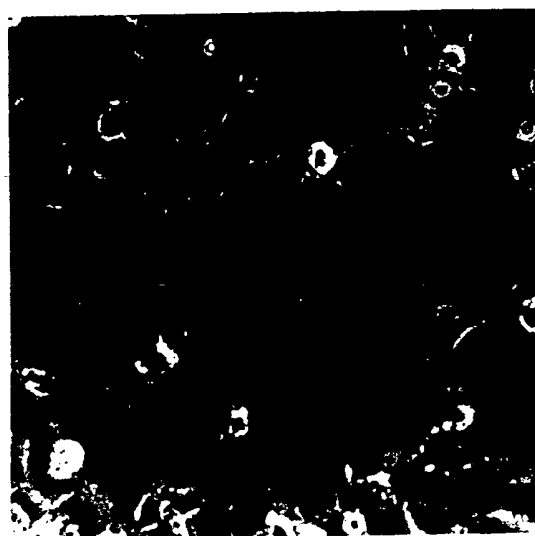


FIG. 5B

bp

Marker

No oligo

200 nM M4

200 nM AS5

615-
492-
369-
246-
123-

FIG. 6

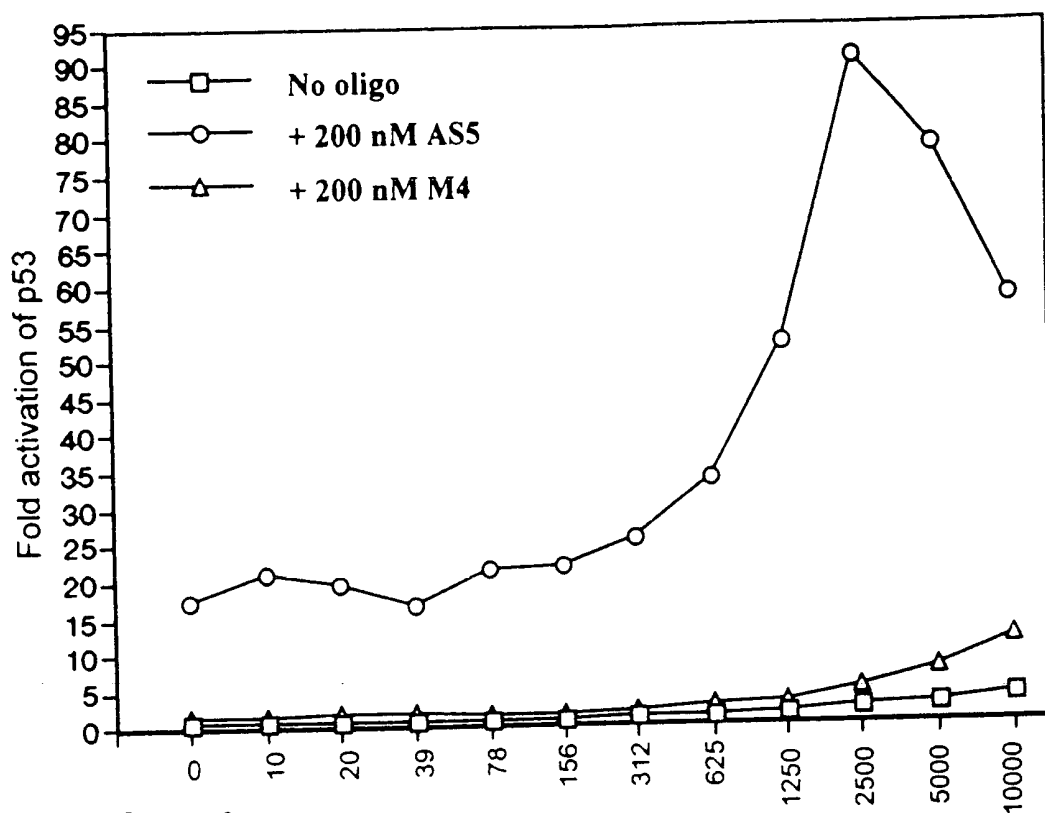


FIG. 7A

CPT concentration (nM)

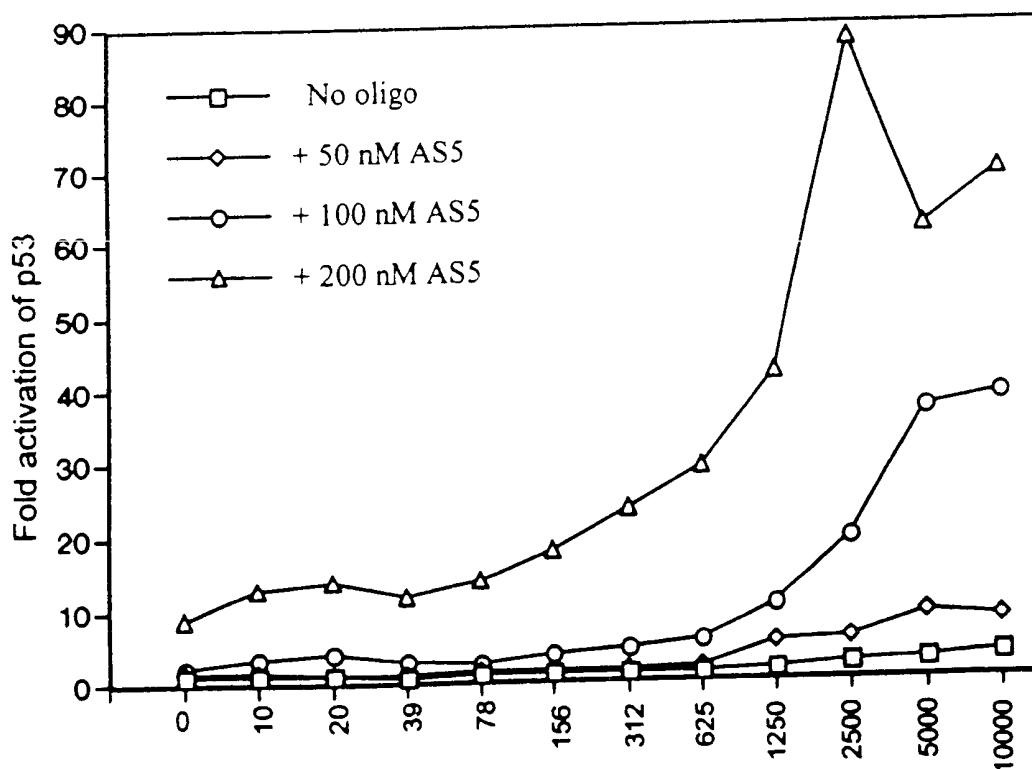


FIG. 7B

CPT concentration (nM)

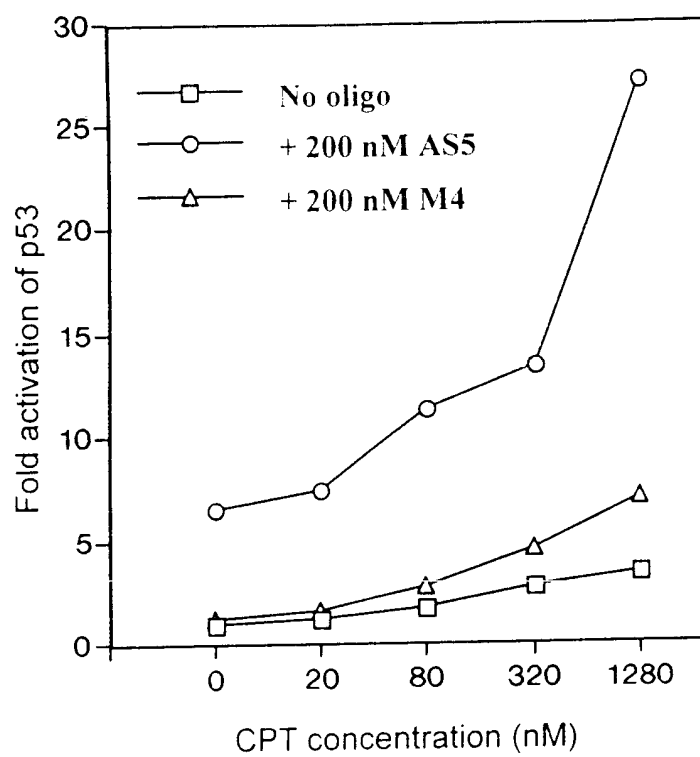


FIG. 7C

FIG. 8B

353-TCCATGTAGACACTCACTCTTGTCCACAGTGGAACTTCCACCCCTCACTAGTTTCCCTGGAAACATGTTCTCGAA-425 SEQ ID NO: 49
SEQ ID NO.: 35 AS5-1: TGTAGACACTCACTCTTGTCC AS5: GGAACCTCCACCCCTCACTAG SEQ ID NO.: 28
SEQ ID NO.: 36 AS5-2: CACTCACTCTTGTCCACAGT AS5-5: ACCCTCACTAGTTTCTCTGG SEQ ID NO.: 39
SEQ ID NO.: 37 AS5-3: ACTCTTGTCCACAGTGGAAAC AS5-6: CACTAGTTTCTCTGGAAACAT SEQ ID NO.: 40
SEQ ID NO.: 38 AS5-4: TGTCCACAGTGGAACTTCCA AS5-7: TTCTGGAAACATGTTCTCGA SEQ ID NO.: 41

FIG. 9A

FIG. 9C

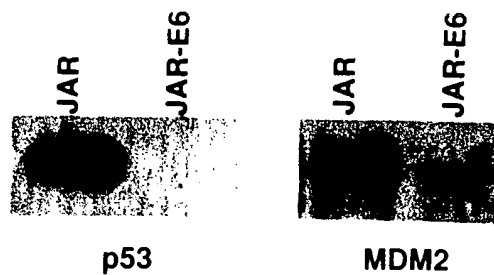
[illegible]

FIG. 10B-1

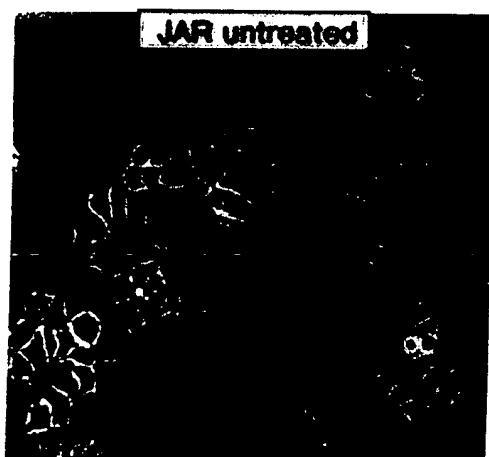


FIG. 10B-2

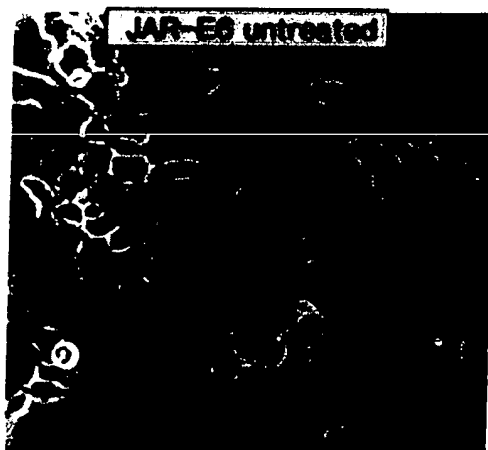
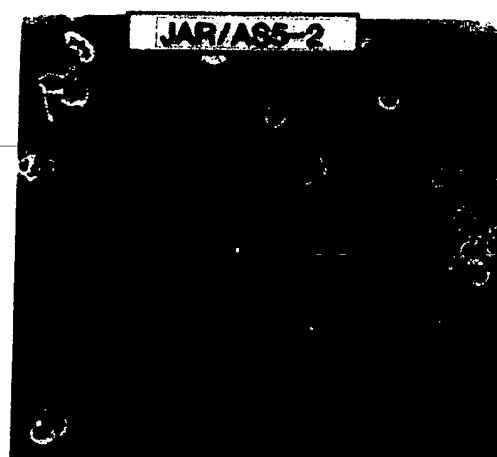


FIG. 10B-3

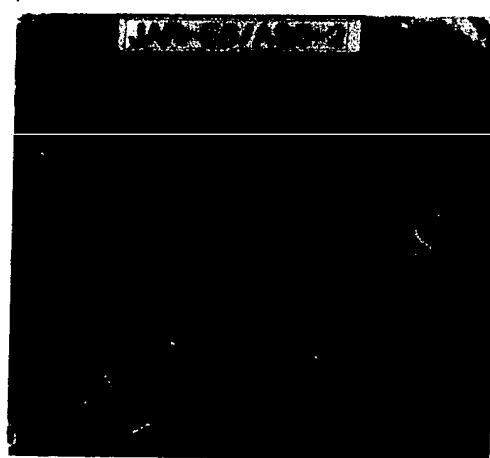


FIG. 10B-4

Control treated

AS5-2 treated

MCF-7
Breast tumor



FIG. 11A

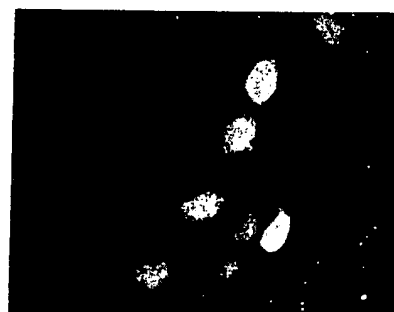


FIG. 11B

SK-N-SH
Neuroblastoma



FIG. 11C

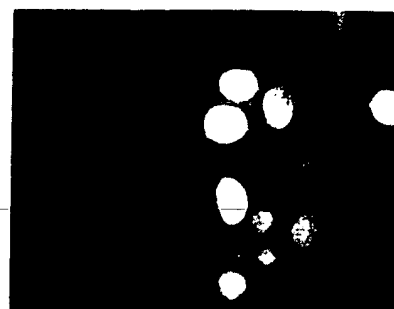


FIG. 11D

A172
Glioblastoma



FIG. 11E

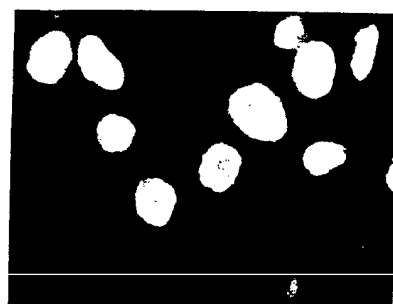


FIG. 11F

HT1080
Fibrosarcoma



FIG. 11G

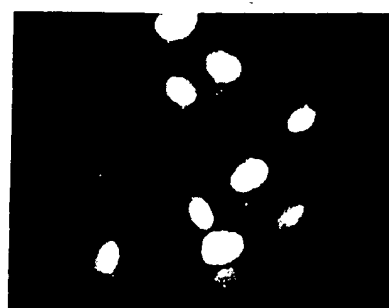


FIG. 11H

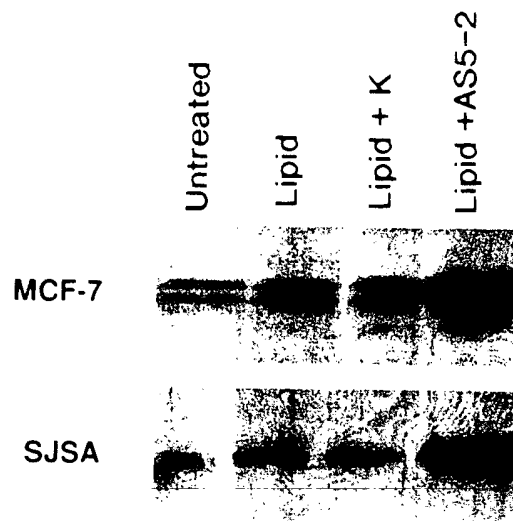


FIG. 12A

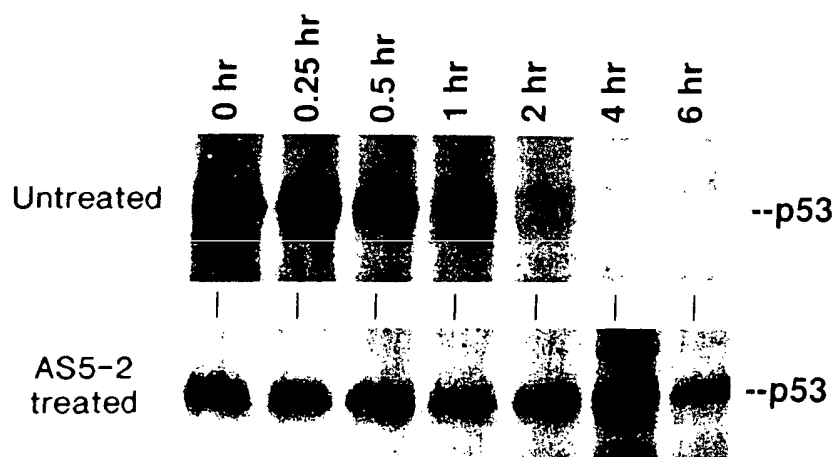


FIG. 12B

HepG2-BP100-luc

Concentration (nM)	AS5-2 (Fold activation)	AS2M4 (Fold activation)	K (Fold activation)
0	1.0	1.0	1.0
25	2.5	1.0	0.9
50	4.8	1.5	1.0
100	9.2	3.0	1.1
200	12.0	4.4	1.2
300	12.0	5.0	1.4

MCF7-BP100-luc

Fold activation of p53

AS5-2
AS2M4
K

Concentration (nM)

Concentration (nM)	AS5-2 (Fold activation)	AS2M4 (Fold activation)	K (Fold activation)
0	1.0	1.0	1.0
25	2.4	0.5	0.5
50	8.6	0.8	0.8
100	22.6	4.7	0.5
200	24.6	8.1	1.0
300	24.6	9.8	1.6

Control treated

AS5-2 treated

Condition	BrdU incorporation (approx.)
LC	32
K	46
AS2M4	30
AS2	33

HCPT (3)+ AS5-2HM (5)
 HCPT (3)+ AS5-2H (1)
 HCPT (3)+ AS5-2H (5)

Saline



FIG. 17

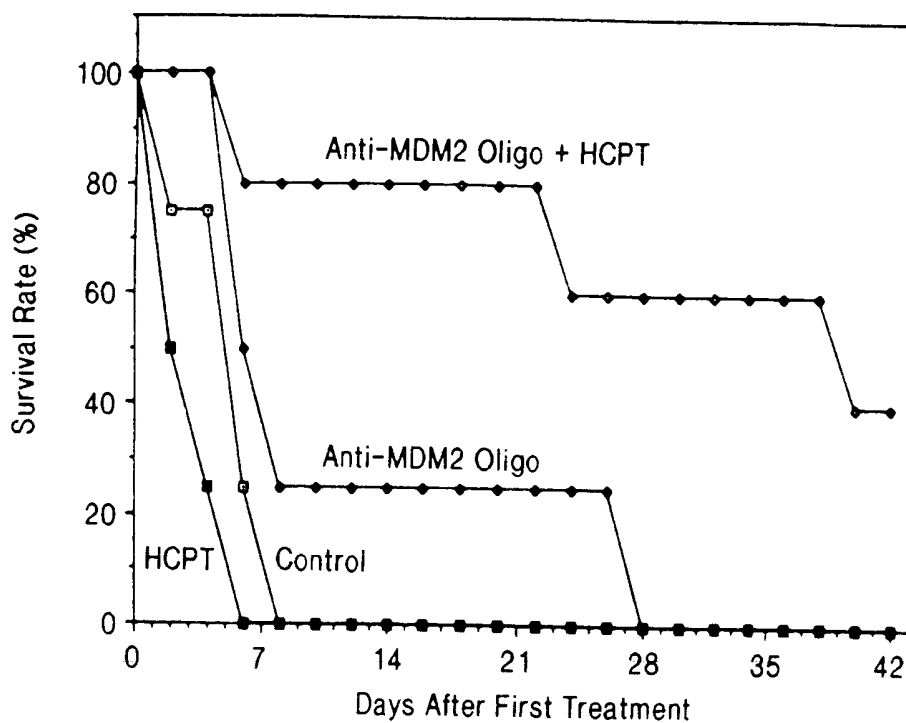


FIG. 18A

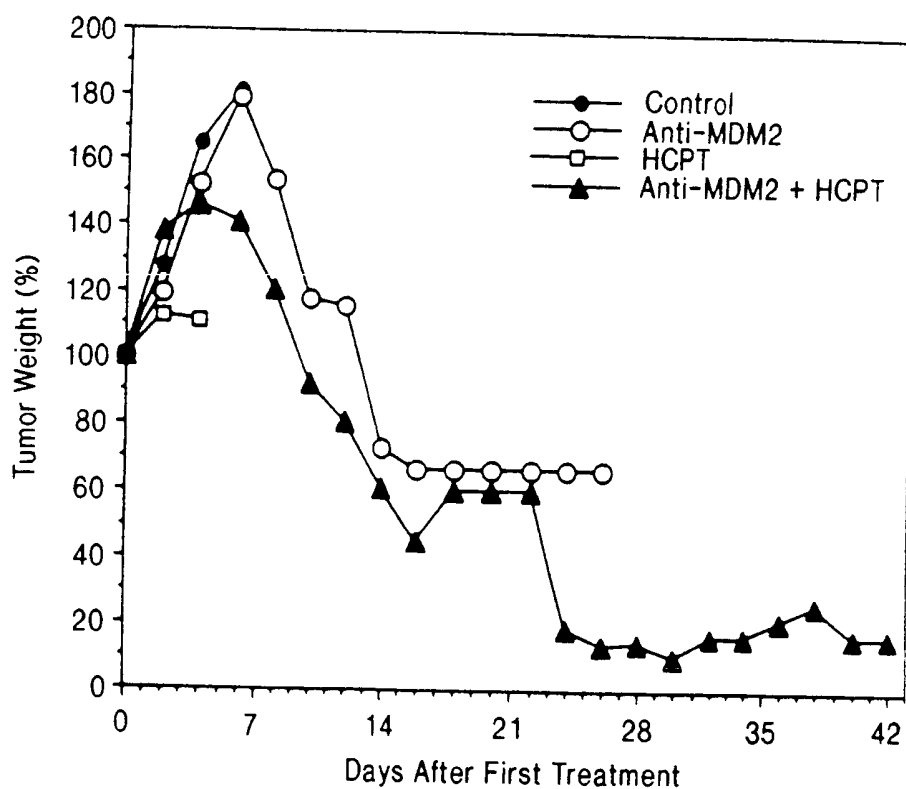
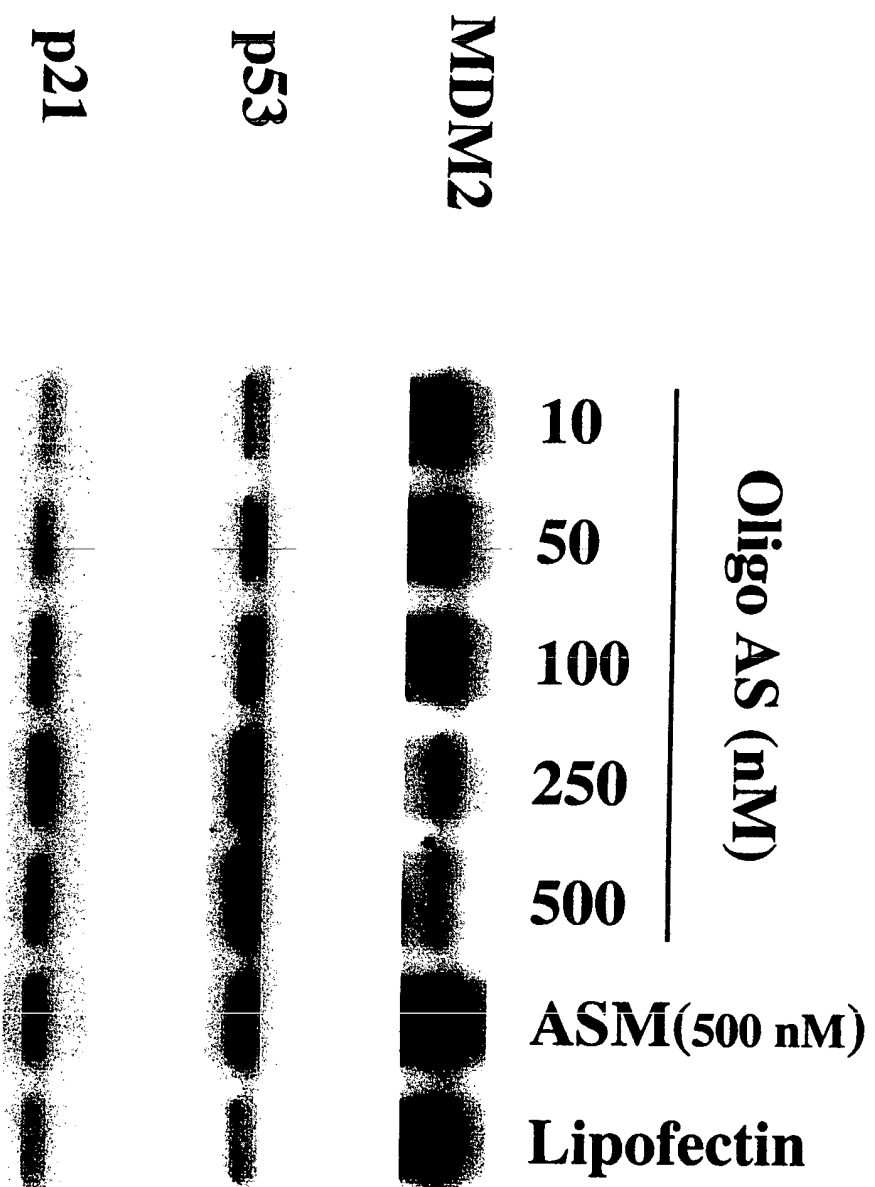


FIG. 18B



09544849, 040300

000000 "045T450"

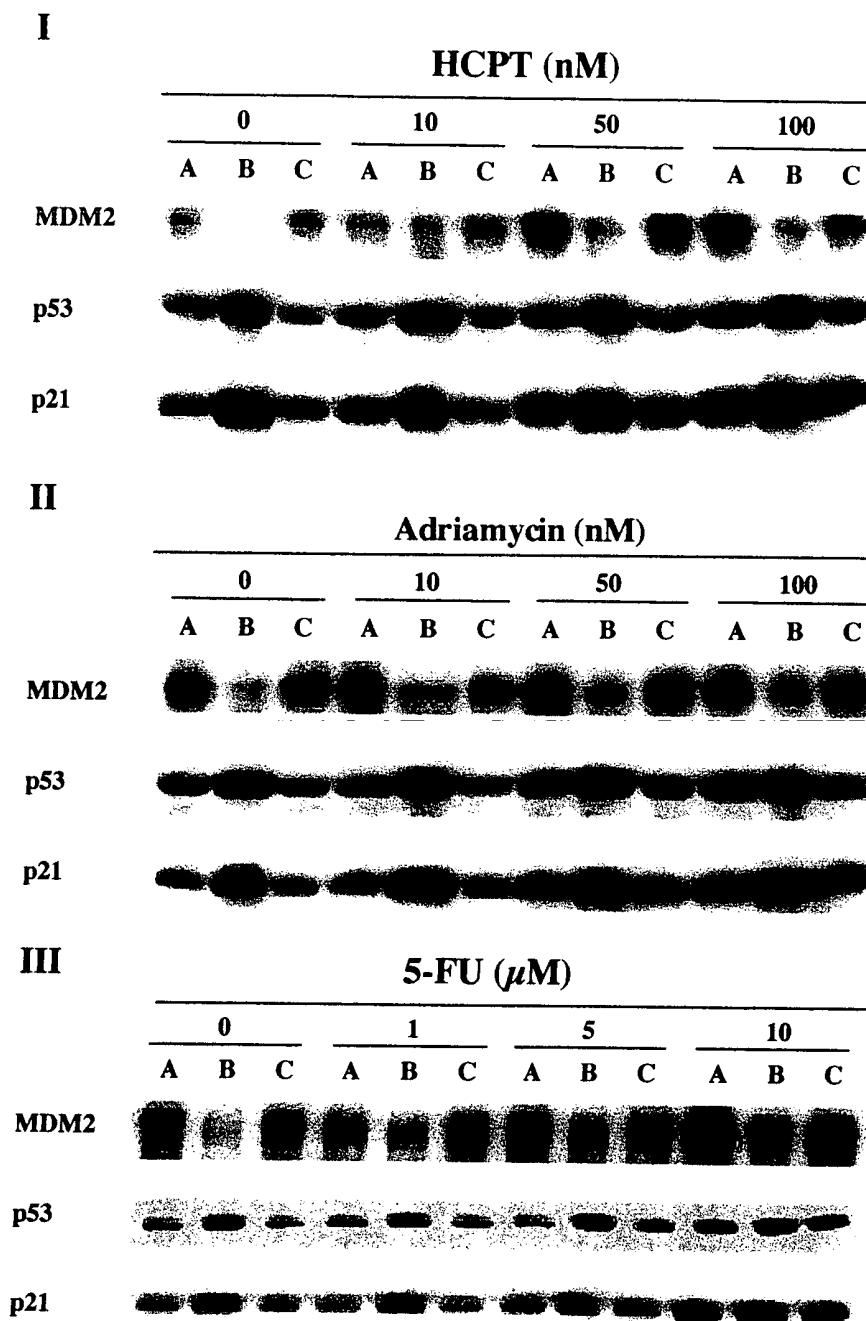
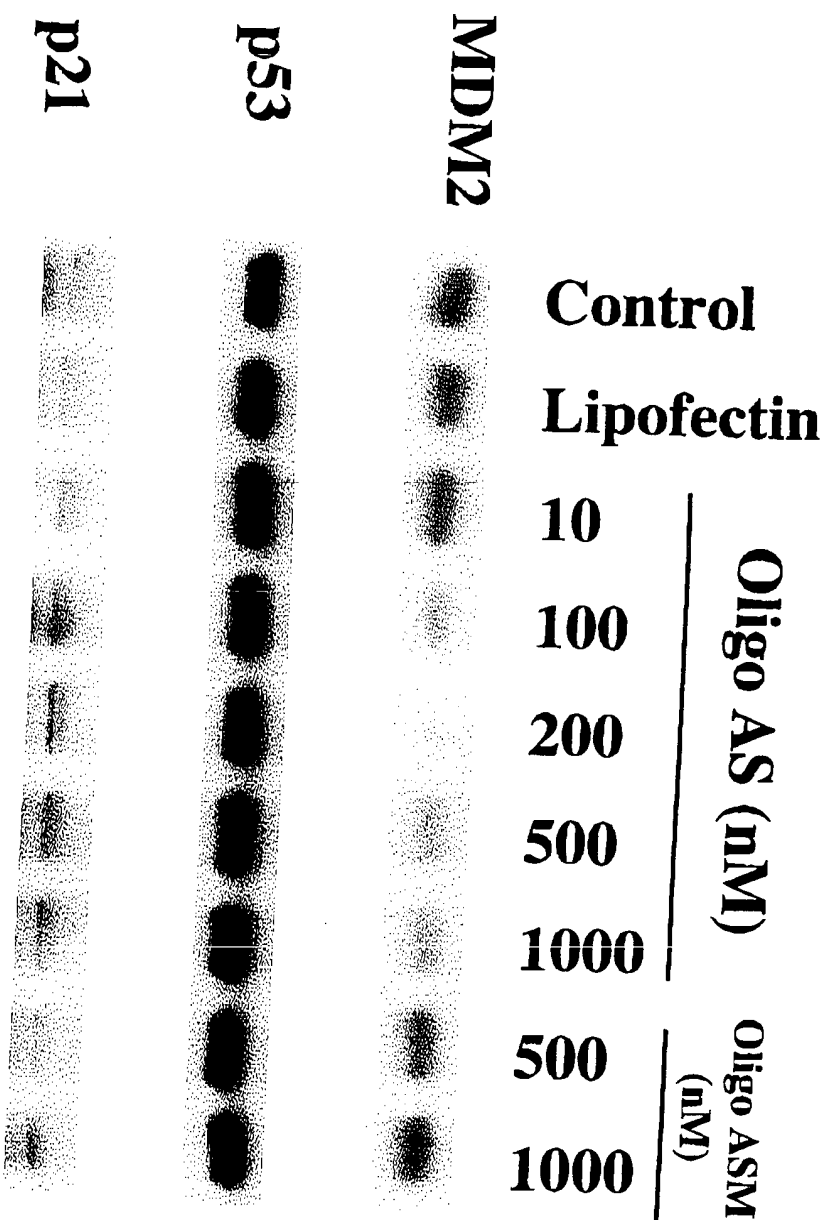
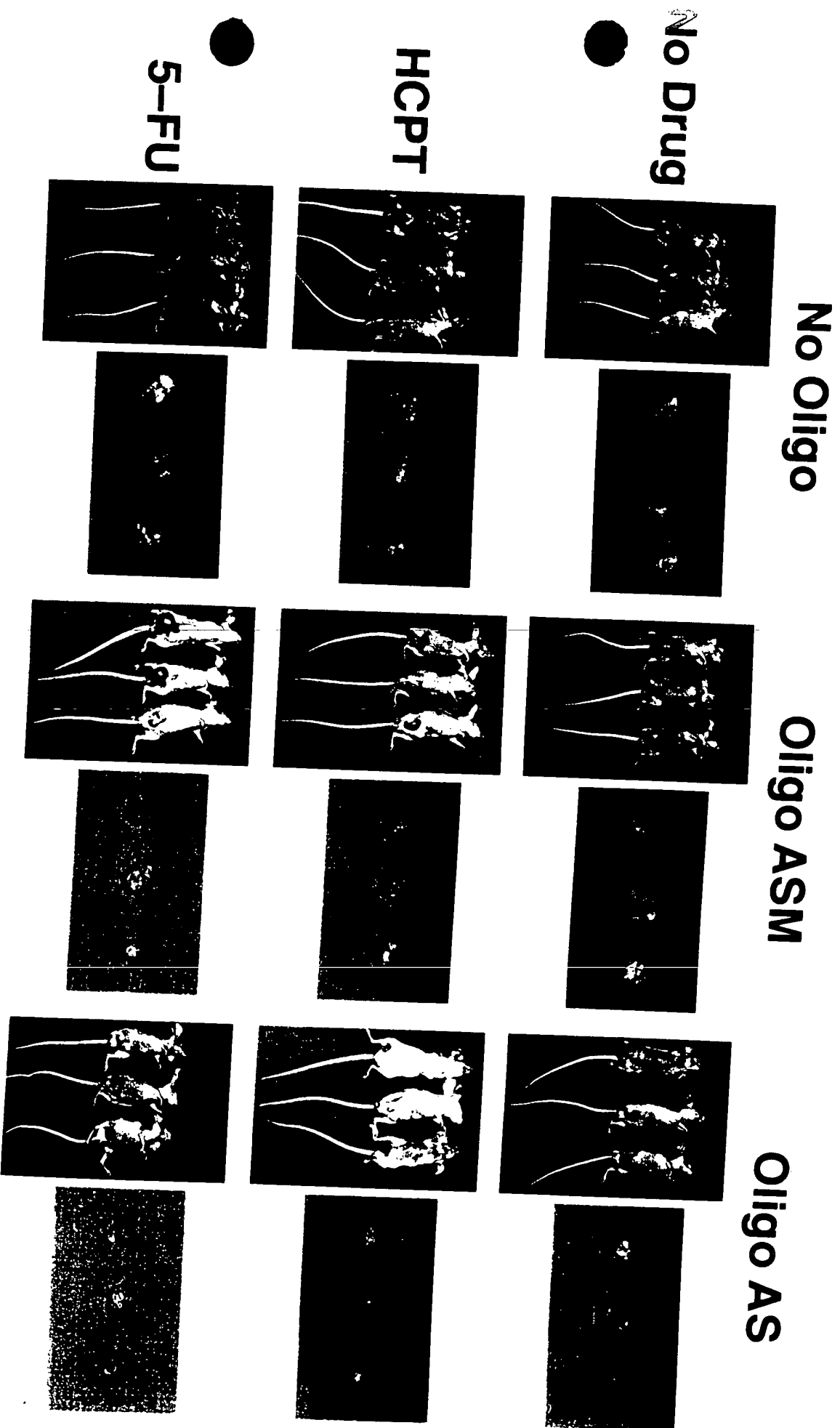


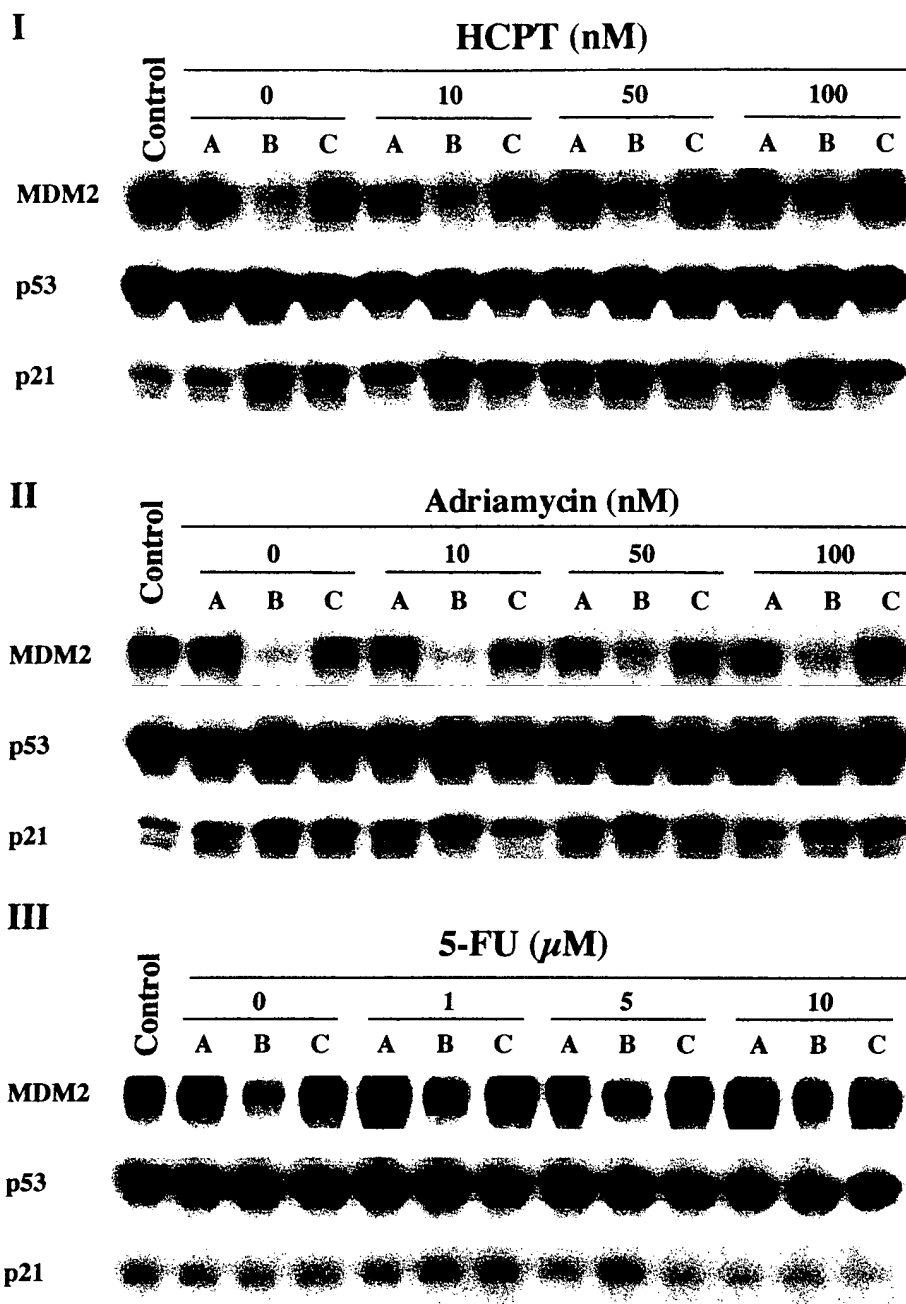
Fig. 20



095442946, 040300



09544848, 040300



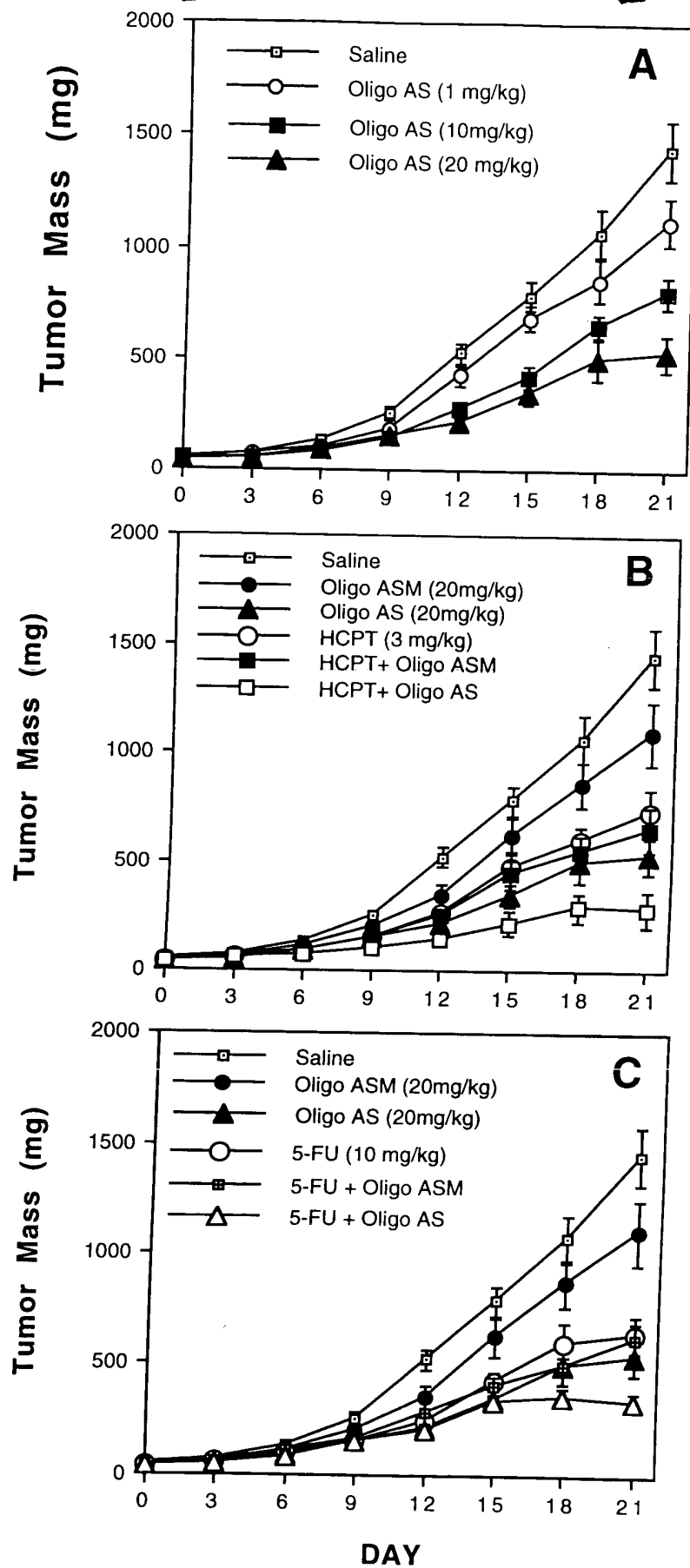


Fig. 25